

Application No.: 10/621805  
Docket No.: SO0030USNA

Page 4

**Amendments to Claims**

1. (Original) A polyether ester comprising poly(trimethylene-ethylene ether) ester soft segment and alkylene ester hard segment.
2. (Currently Amended) The polyether ester of claim 1, wherein the polyether ester is a thermoplastic elastomer in which the hard segment comprises C<sub>2</sub> to C<sub>12</sub> alkylene ester.
3. (Currently Amended) The polyether ester [elastomer] of claim 2, wherein the hard segment comprises tetramethylene ester.
4. (Currently Amended) The polyether ester [elastomer] of claim 2, wherein the hard segment comprises trimethylene ester.
5. (Currently Amended) The polyether ester [elastomer] of claim 2, wherein the hard segment comprises dimethylene ester.
6. (Original) The polyether ester of claim 1, comprising about 90 to about 10 weight % poly(trimethylene-ethylene ether) ester soft segment and about 10 to about 90 weight % alkylene ester hard segment.
7. (Currently Amended) The polyether ester [elastomer] of claim 2, comprising about 90 to about 60 weight % poly(trimethylene-ethylene ether) ester soft segment and about 10 to about 40 weight % alkylene ester hard segment.
8. (Currently Amended) The polyether ester [elastomer] of claim 7, comprising about 70 to about 85 weight % poly(trimethylene-ethylene ether) ester soft segment and about 15 to about 30 weight % alkylene ester hard segment.
9. (Currently Amended) The polyether ester [elastomer] of claim 1, wherein the mole ratio of hard segment to soft segment is at least about 2.0.

Application No.: 10/621805

Docket No.: SO0030USNA

Page 5

10. (Currently Amended) The polyether ester ~~[elastomer]~~ of claim 9, wherein the mole ratio of hard segment to soft segment is about 2.0 to about 4.5.
11. (Currently Amended) The polyether ester ~~[elastomer]~~ of claim 10, wherein the mole ratio of hard segment to soft segment is about 2.5 to about 4.0.
12. (Currently Amended) The polyether ester ~~[elastomer]~~ of claim 1, prepared by providing and reacting:
- (a) poly(trimethylene-ethylene ether) glycol,
  - (b) diol, and
  - (c) at least one of dicarboxylic acid, ester, acid chloride and acid anhydride.
13. (Currently Amended) The polyether ester ~~[elastomer]~~ of claim 12, wherein the diol is at least one of 1,4-butanediol, 1,3-propanediol or 1,2-ethanediol.
14. (Currently Amended) The polyether ester ~~[elastomer]~~ of claim 12, wherein the dicarboxylic acid, ester, acid chloride and acid anhydride is at least one aromatic dicarboxylic acid or ester.
15. (Currently Amended) The polyether ester ~~[elastomer]~~ of claim 14, wherein the aromatic dicarboxylic acid or ester is selected from the group consisting of dimethyl terephthalate, bibenzoate, isophthalate, phthalate and naphthalate, terephthalic, bibenzoic, isophthalic, phthalic and naphthalic acid and mixtures thereof.
16. (Currently Amended) The polyether ester ~~[elastomer]~~ of claim 15, wherein the aromatic dicarboxylic acid or ester is at least one of terephthalic acid and dimethyl terephthalate.
17. (Currently Amended) The polyether ester ~~[elastomer]~~ of claim 1, prepared by providing and reacting:
- (a) poly(trimethylene-ethylene ether) glycol

Application No.: 10/621805  
Docket No.: SO0030USNA

Page 6

(b) at least one polyester.

18. (Currently Amended) The polyether ester [~~elastomer~~] of claim 17, wherein the polyester is at least one of polyethylene terephthalate, polytrimethylene terephthalate and polytetramethylene terephthalate.

19. (Original) Fiber prepared from polyether ester elastomer comprising a soft segment from poly(trimethylene-ethylene ether) glycol and alkylene ester hard segment.

20. (Currently Amended) The fiber of claim 19, which is monocomponent filament, staple fiber, or multicomponent fiber.

21. (Original) The fiber of claim 19, wherein the hard segment comprises C<sub>2</sub> to C<sub>12</sub> alkylene ester.

22. (Original) The fiber of claim 19, wherein the hard segment comprises tetramethylene ester.

23. (Original) The fiber of claim 19, wherein the hard segment comprises trimethylene ester.

24. (Original) Fabric made from the fiber of claim 19.

25. (Original) Films or membranes prepared from polyether ester elastomer comprising a soft segment from poly(trimethylene-ethylene ether) glycol and alkylene ester hard segment.